

Application No.: 09/752,122

Docket No.: JCLA6705

REMARKS**Present Status of the Application**

The Office Action rejected all pending claims 1-5 and 7-14 under 35 USC 103(a) as being unpatentable over Potash (US 4435756) in further view of Patterson and Hennessy, *Computer Organization & Design*, 2nd Ed., 1998 (hereinafter, Patterson). Applicants have amended the claims to distinguish from combination of the citations. After entry of the foregoing amendments, claims 1-5 and 7-14 remain pending in the present application, and reconsideration of those claims is respectfully requested.

Discussion of Office Action Rejections

[35 USC 103 Discussion]

The Office Action rejected claims 1-5 and 7-14 under 35 USC 103(a) as being unpatentable over Potash in view of Patterson. Applicants respectfully traverse the rejections for at least the reasons set forth below.

Claim 1 is patentable over Potash in view of Patterson at least because combination of the two citations does not disclose, suggest or teach the feature of "...if the fetch instruction is not stored in the cache memory, the fetch instruction may not be fetched from the external memory to the cache memory according to the control signal" as claimed in claim 1. More specifically, as stated in the Office Action, Potash has not taught to fetch the fetch instruction from an external memory according to a control signal if the instruction is not in the cache memory (page 6, point 12). Furthermore, Patterson taught a cache exists between the main

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memory and the processor, which operates in a manner such that when a fetch of data at an address results in a cache miss, the data is instead brought from memory into the cache and processor (p.541-2, p.545, 550). Accordingly, Patterson taught to *always fetch* the missed data from an external memory when a cache miss is occurred. Moreover, according to line 46, column 6 to line 7, column 5, Potash taught that no matter the branch instruction is success, subsequent instructions were always fetched. However, the present invention does not always fetch the missed data when a cache miss is occurred. Instead, the present invention determines whether to fetch the missed data according to a control signal as cited in claim 1. In other words, although a cache miss happened, the missed data may not be fetched from the external memory because the control signal prevented the cache from doing so.

Accordingly, Potash does not teach to send a control signal to the memory such that whether to perform memory access is determined, and moreover, combination of the two citations does not disclose, teach or suggest all features in claim 1. Claim 1 is therefore patentable over Potash in view of Patterson at least because the reasons set above.

Claims 5, 9 and 12 claims similar features as cited in claim 1, and therefore are patentable over Potash in view of Patterson at least because the reasons set above for claim 1.

Claims 2-4, 7-8, 10-11 and 13-14 are patentable over Potash in view of Patterson as a matter of law since the depended claims 1, 5, 9 and 12 are patentable over Potash in view of Patterson, respectively.

For at least the foregoing reasons, Applicant respectfully submits that independent claims 1, 5, 9 and 12 patently define over the prior art references, and should be allowed. For at least

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the same reasons, dependent claims 2-4, 7-8, 10-11 and 13-14 patently define over the prior art as well.

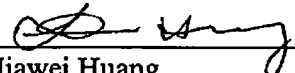
CONCLUSION

For at least the foregoing reasons, it is believed that the pending claims 1-5 and 7-14 are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

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4 Venture, Suite 250
Irvine, CA 92618
Tel.: (949) 660-0761
Fax: (949) 660-0809

Respectfully submitted,
J.C. PATENTS


Jiawei Huang
Registration No. 43,330